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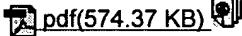
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1 Generation of the HDL-A-Model of a Micromembrane from Its Finite-Element-Description

Klaus Hofmann, Manfred Glesner, Nicu Sebe, A. Manolescu, Santiago Marco, Josep Samitier, Jean-Michel Karam, Bernard Courtois

March 1997 **Proceedings of the 1997 European conference on Design and Test**

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A CAD tool for the automated generation of behavioral models in HDL-A is presented. This CAD tool has been implemented in the frame of a project for the automatic modeling of microsystem components for the co-simulation with VHDL or Spice-models. Starting from the finite-element-description of a microcomponent a nonlinear behavioral HDL-A-model is generated by successively adding or deleting effects to the HDL-A-model according to the observed differences between the two models. Using the exempli ...

Keywords: logic CAD, HDL-A-model, micromembrane, finite-element-description, CAD tool, automated generation, behavioral models, FEM, microsystem components, automatic modeling, cosimulation, VHDL-models, Spice-models

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